Amendment to the Claims

In the claims:

1. (Currently Amended) A scalable motion image compression system ~~for~~ capable of processing a digital motion image ~~signal~~ stream wherein the digital motion image ~~signal~~ stream has an associated transmission rate, the system comprising:

a decomposition module for receiving the digital motion image ~~signal~~ stream at the transmission rate in substantially real-time, ~~-~~ and decomposing the digital motion image ~~signal~~ stream into component parts ~~and sending the components at the transmission rate~~; and

a compression module for receiving each of the component parts from the decomposition module at the transmission rate, compressing each of the component parts in parallel in a separate compression unit creating a plurality of compressed component parts, and sending each of the compressed component parts to a separate memory location.

2. (Original) A scalable motion image compression system according to claim 1, wherein the decomposition module includes one or more decomposition units.

3. (Currently Amended) A scalable motion image compression system according to claim 1, wherein each digital image within the digital motion image ~~signal~~ stream is compressed by the combination of the compression units at the transmission rate.

4. (Original) A scalable motion image compression system according to claim 1 further comprising a programmable module for routing the decomposed digital motion image ~~signal~~ stream between the decomposition module and the compression module.

5. (Original) A scalable motion image compression system according to claim 4, wherein the programmable module is a field programmable gate array.

6. (Original) A scalable motion image compression system according to claim 5, wherein the field programmable gate array is reprogrammable.

7. (Currently Amended) A scalable motion image compression system according to claim 1,

wherein ~~the compression module includes one or more compression units~~ the compression units of the compression module operate at a processing speed below the transmission rate.

8. (Currently Amended) A scalable motion image compression system according to claim ~~7~~ 1, wherein the throughput of a compression unit multiplied by the number of compression units is greater than or equal to the transmission rate of the digital motion image ~~signal~~ stream.

9. (Currently Amended) A scalable motion image compression system according to claim ~~7~~ 1, ~~wherein each compression unit operates in parallel~~ wherein the decomposition module determines a number of compression units necessary to accommodate the transmission rate based upon throughput of a compression unit and decomposes the digital motion image signal stream into a number of component parts at least equal to the determined number of compression units.

10. (Currently Amended) A scalable motion image compression system according to claim 1, wherein the decomposition module includes ~~one or more~~ a plurality of decomposition units.

11. (Currently Amended) A scalable motion image compression system according to claim ~~1~~ 10, wherein each decomposition unit operates in parallel.

12. (Original) A scalable motion image compression system according to claim 1, wherein the decomposition module performs color decorrelation.

13. (Original) A scalable motion image compression system according to claim 1, wherein the decomposition module performs color rotation.

14. (Original) A scalable motion image compression system according to claim 1, wherein the decomposition module performs temporal decomposition.

15. (Original) A scalable motion image compression system according to claim 1, wherein the decomposition module performs spatial decomposition.

16. (Original) A scalable motion image compression system according to claim 1, wherein the compression module uses subband coding.

17. (Currently Amended) A scalable motion image compression system according to claim ~~13~~ 16, wherein the subband coding uses wavelets.

18. (Currently Amended) A scalable motion image compression system according to claim ~~1~~ 15,

wherein the spatial decomposition is spatial polyphase decomposition.

19. (Cancel)

20. (New) A scalable motion image compression system according to claim 1, wherein the decomposition module is an integrated circuit.

21. (New) A scalable motion image compression system according to claim 1, wherein the compression module is an integrated circuit.

22. (New) A scalable motion image compression system according to claim 1, wherein both the decomposition module and the compression module contain one or more integrated circuits.

23. (New) A scalable motion image compression system according to claim 1, wherein the decomposition module has a throughput that is at least equal to the transmission rate.

24. (New) A scalable motion image compression system according to claim 9, wherein the decomposition module is capable of receiving digital motion image streams each having a different transmission rates up to the throughput rate of the decomposition module.